a) Organosilanes of the type  $(RO)_3Si(C_nH_{2n+1})$  and  $(RO)_3Si(C_nH_{2n-1})_{a}$ 

R = alkyl,

n = 1 - 20;

b) Organosilanes of the type  $R'_x(RO)_ySi(C_nH_{2n+1})$  and  $(RO)_3Si(C_nH_{2n+1})$ 

R = alkyl,

R' = alkyl

R' = cycloalkyl

N = 1 - 20

x+y=3

x = 1, 2,

y = 1, 2;

c) Halogen organosilanes of the type  $X_3 \, Si(C_n H_{2n+1})$  and  $X_3 \, Si(C_n H_{2n-1})$ 

X = Cl, Br,

n = 1 - 20;

d) Halogen organosilanes of the type  $X_2\left(R'\right) Si(C_nH_{2n+1})$  and

 $X_{2}\left( R^{\prime}\right) \,Si(C_{n}H_{2n\text{-}1})$  ,

X = Cl, Br

R' = alkyl

CARLOS ANCHE, LANGER PROMISE BANKER ANCHES OF THE PARTY AND THE PARTY AN

$$R' = cycloalkyl$$
  
 $n = 1 - 20;$ 

e) Halogen organosilanes of the type  $X(R')_2 Si(C_nH_{2n+1})$  and

$$X(R')_2 Si(C_nH_{2n-1})$$
,

$$X = Cl, Br;$$

$$R' = alkyl$$

$$R' = cycloalkyl$$

$$n = 1 - 20;$$

f) Organosilanes of the type  $(RO)_3Si(CH_2)_m-R'$ 

$$R = alky,l$$

$$m = 0.1 - 20,$$

R' = methyl-, aryl (e.g., 
$$-C_6H_5$$
, substituted phenyl groups)

$$-NH_2$$
,  $=N_3$ ,  $-SCN$ ,  $-CH=CH_2$ ,  $-NH-CH_2-CH_2-NH_2$ ,

$$-OOC(CH_3)c = CH_2$$
,

$$\hbox{-NH-COO-CH$_3$, -NH-COO-CH$_2$-CH$_3$, -NH-(CH$_2$)$_3Si(or)$_3$,}$$

$$-S_x$$
-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>,

Merch Lotter, and the court of the court of

-SH, and

-NR'R''', wherein R' = alkyl, aryl; R'' = H, alkyl, aryl; and R''' = H, alkyl, aryl, benzyl, or  $C_2H_4NR$ '''' R'''' with R'''' = H, alkyl and R'''' = H, alkyl;

g) Organosilanes of the type  $(R'')_x (RO)_y Si(CH_2)_m$ -R'

$$R'' = alkyl, cycloalkyl,$$

$$x+y=2$$
,

$$x = 1, 2,$$

$$y = 1, 2,$$

$$m = 0.1$$
 to 20,

R' = methyl-, aryl,  $-C_6H_5$ , substituted phenyl groups

-C<sub>4</sub>F<sub>9</sub>, -OCF<sub>2</sub>-CHF-CF<sub>3</sub>, -C<sub>6</sub>F<sub>13</sub>, -O-CF<sub>2</sub>-CHF<sub>2</sub>,

 $-NH_2$ ,  $-N_3$ , SCN,  $-CH = CH_2$ ,  $-NH-CH_2-CH_2-NH_2$ ,

-N-(CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>)<sub>2</sub>,

 $-OOC(CH_3)C = CH_{2a}$ 

-OCH<sub>2</sub>-CH(O) CH<sub>2</sub>,

-NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>

 $\hbox{-NH-COO-CH$_3$, -NH-COO-CH$_2$-CH$_3$, -NH-(CH$_2$)$_3Si(OR)$_3$,}$ 

 $-S_x$ -(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>

-SH, and

-NR'R''R''', wherein R' = alkyl, aryl; R'' = H,

355402v1

alkyl, aryl; and R''' = H, alkyl, aryl, benzyl, or  $C_2H_4NR''''R'''''$  with R''''' = H, alkyl and R'''''' = H, alkyl);

h) Halogen organosilanes of the type X<sub>3</sub>Si (CH<sub>2</sub>)<sub>m</sub>-R'

$$X = Cl, Br,$$

$$m = 0, 1 - 20,$$

R' = methyl-, aryl.,  $-C_6H_5$ , substituted phenyl groups

-C<sub>4</sub>F<sub>9</sub>, -OCF<sub>2</sub>-CHF-CF<sub>3</sub>, -C<sub>6</sub>F<sub>13</sub>, -O-CF<sub>2</sub>-CHF<sub>2</sub>,

-NH<sub>2</sub>, -N<sub>3</sub>, SCN, -CH=CH<sub>2</sub>, -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>,

 $-N-(CH_2-CH_2-NH_2)_2$ ,

-OOC (CH<sub>3</sub>)C = CH<sub>2</sub>,

 $-OCH_2$ -CH(O) CH<sub>2</sub>,

-NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>,

 $\hbox{-NH-COO-CH$_3$, -NH-COO-CH$_2$-CH$_3$, -NH-(CH$_2$)$_3Si(OR)$_3$,}$ 

 $-S_x$ -(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>, and

-SH;

i) Halogen organosilanes of the type (R)X<sub>2</sub>Si(CH<sub>2</sub>)<sub>m</sub>-R'

$$X = C1, Br,$$

R = alkyl such as methyl, - ethyl-, propyl-,

m = 0, 1 - 20,

R' = methyl-, aryl [(e.g]., - $C_6H_5$ , substituted phenyl groups,

 $-C_4F_9$ ,  $-OCF_2$ -CHF-CF<sub>3</sub>,  $-C_6F_{13}$ , -O-CF<sub>2</sub>-CHF<sub>2</sub>,

-NH<sub>2</sub>, -N<sub>3</sub>, SCN, -CH=CH<sub>2</sub>, -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>,

-N-(CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>)<sub>2</sub>,

-OOC (CH<sub>3</sub>)C = CH<sub>2</sub>,

-OCH<sub>2</sub>-CH(O) CH<sub>2</sub>,

-NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>,

-NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-

 $(CH_2)_3Si(OR)_3$ ,

 $-S_x$ -(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>,

-SH;

(j) Halogen organosilanes of the type (R)<sub>2</sub>X Si(CH<sub>2</sub>)<sub>m</sub>-R'

X = Cl, Br,

R = alkyl,

m = 0, 1 - 20,

R' = methyl-, aryl.,  $-C_6H_5$ , substituted phenyl groups,

 $-C_4F_9$ ,  $-OCF_2$ -CHF-CF<sub>3</sub>,  $-C_6F_{13}$ ,  $-O-CF_2$ -CHF<sub>2</sub>,

 $-NH_2$ ,  $-N_3$ , SCN,  $-CH=CH_2$ ,  $-NH-CH_2-CH_2-NH_2$ ,

-N-(CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>)<sub>2</sub>,

-OOC ( $CH_3$ ) $C = CH_2$ ,

-OCH<sub>2</sub>-CH(O) CH<sub>2</sub>,

-NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>,

 $\hbox{-NH-COO-CH$_3$, -NH-COO-CH$_2$-CH$_3$, -NH-(CH$_2$)$_3Si(OR)$_3$,}$ 

 $-S_x$ -(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>

-SH;

(k) Silazanes of the type R'R<sub>2</sub>Si-N-SiR<sub>2</sub>R'

H

R = alkyl,

R' = alkyl, vinyl; or

(l) Cyclic polysiloxanes of the type D 3, D 4 or D 5:

$$CH_3$$
  $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$ 

m) Polysiloxanes or silicone oils of the type

$$Y-O-\begin{pmatrix} R \\ | \\ Si-O \\ | \\ R' \end{pmatrix} - \begin{pmatrix} R'' \\ | \\ Si-O \\ | \\ R''' \end{pmatrix} - Y$$

$$m \qquad n \qquad u$$

$$m = 0, 1, 2, 3, \dots \infty$$
  
 $n = 0, 1, 2, 3, \dots \infty$   
 $u = 0, 1, 2, 3, \dots \infty$ 

$$Y=CH_3$$
, H,  $C_nH_{2n+1}$   $n=1-20$   
 $Y=Si(CH_3)_3$ ,  $Si(CH_3)_2H$ 

Si(CH<sub>3</sub>)<sub>2</sub>OH, Si(CH<sub>3</sub>)<sub>2</sub> (OCH<sub>3</sub>),  
Si(CH<sub>3</sub>)<sub>2</sub> (C<sub>n</sub>H<sub>2n+1</sub>) 
$$n=1-20$$
,

Al

R = alkyl, aryl, (CH<sub>2</sub>)<sub>n</sub>-NH<sub>2</sub>, H,

R' = alkyl, aryl,  $(CH_2)_n$ - $NH_2$ ,  $H_1$ 

R'' = alkyl, aryl, (CH<sub>2</sub>)<sub>n</sub>-NH<sub>2</sub>, H,

R'''= alkyl, aryl,  $(CH_2)_n$ - $NH_2$ , H.,

4. (Amended) A method of producing the surface-modified oxides in accordance with claim 1 or 2, comprising placing pyrogenically produced oxides doped by aerosol in a suitable mixing container, spraying the oxides under intensive mixing with the surface-modification reagent or a mixture of several surface-modification reagents.

5.(Amended) In a reinforcing filler composition wherein the improvement comprises the surface-modified oxides according to claim 1 or 2 as reinforcing filler.

355402v1

- 6. (New) The method of claim 4 wherein the spraying step includes spraying with water and/or acid prior to the spraying with the surface-modification reagent or a mixture of several surface-modification reagents.
- 7. (New) The method of claim 4 further comprising re-mixing at 15 to 30 minutes and tempering at a temperature of 100 to 400 °C for a period of 1 to 6 hours.
- 8. (New) The surface-modified, pyrogenically produced oxides according to claim 3 wherin the cyclic polysiloxanes is type D 4.
- 9. (New) The surface-modified, pyrogenically produced oxides according to claim 8 wherin the type D4 cyclic polysiloxanes is octamethylcyclotetrasiloxane.